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PTO/SB/08a (08-03)

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Substitute for form 1449A/PTO SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT OF APPLICANT (Use as many sheets as necessary)		Application Number 10/634,662	
		Filing Date August 4, 2003	
		First Named Inventor Chang, et al.	
		Group Art Unit 1762	
		Examiner Name Wesley D. Markham	
		Attorney Docket Number APPM/005975.P1/CPI/COPPER/LB/PJS	
Sheet	1	of	1
		Submission Date October , 2005	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
KMS	A1	US 6790773	09/14/2004	Drewery, et al.	
KMS	A2	US 20050081882	04/21/2005	Greer, et al.	
KMS	A3	US-20050006799	01/13/2005	Gregg, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
KMS	B1	WO 2005/020317	03/03/2005	Chang, et al.		
KMS	B2	EP 1 293 509	09/10/2002	Kawano, et al.		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
KMS	C1	International Search Report dated July 29, 2005 regarding International Application No. PCT/US2005/010203 (APPM/005975PC03)	
KMS	C2	Meda, et al. "Chemical Vapor Deposition of Ruthenium Dioxide Thin Films From Bis(2, 4-dimethylpentadienyl) Ruthenium," Chemical Aspects of Electronic Ceramics Processing, Symposium Mater. Res. Soc., Warrendale, PA, USA, 1998, pp. 75-80, XP009050315, ISBN: 1-55899-400-9	

Examiner /Kelly Stouffer/	Date Considered 09/20/2006
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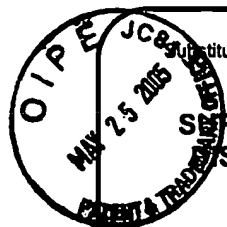
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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1

of 1

Application Number	10/634,662
Filing Date	August 4, 2003
First Named Inventor	Chang, et al.
Group Art Unit	1762
Examiner Name	Wesley D. Markham
Attorney Docket Number	AMAT/5975.P1/CPI/COPPER/LB/PJS
Submission Date	May 23, 2005

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
KMS	A1	US-6887795	05/03/2005	SOININEN, ET AL.	
	A2	US-6800937	10/05/2004	MARSH, ET AL.	
	A3	US-6800542	10/05/2004	KIM	
	A4	US-6780758	08/24/2004	DERDERIAN, ET AL.	
	A5	US-6744138	06/01/2004	MARSH	
	A6	US-6743739	06/01/2004	SHIMAMOTO, ET AL.	
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	A10	US-6576778	06/10/2003	UHLENBROCK, ET AL.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
KMS	B1	WO 03/056612	07/10/2003	GENITECH CO., LTD.		

NON PATENT LITERATURE DOCUMENTS

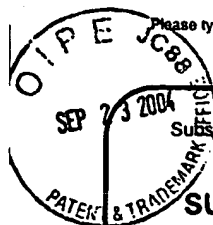
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
KMS	C1	International Search Report dated March 11, 2005 regarding International Application No. PCT/US2004/024805 (AMAT/5975PC02PCT)	

Examiner /Kelly Stouffer/

Date Considered 09/20/2006

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of 1

Application Number	10/634,662
Filing Date	August 4, 2003
First Named Inventor	Chang, et al.
Group Art Unit	1762
Examiner Name	Unknown
Attorney Docket Number	AMAT/5975.P1/CPI/COPPER/LB/PJS
Submission Date	September 20, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
KMS ↓	A1	US-6,713,373 B1	03/30/2004	Omstead	
	A2	US-6,605,735 B2	08/12/2003	Kawano, et al.	
	A3	US-6,479,100 B2	11/12/2002	Jin, et al.	
	A4	US-6,440,495 B1	08/27/2002	Wade, et al.	
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	A6	US-2001/0006838 A1	07/05/2001	Won, et al.	

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
KMS ↓	C1	Aaltonen, et al., "Atomic Layer Deposition of Ruthenium from RuCp ₂ and Oxygen: Film Growth and Reaction Mechanism Studies," Electrochemical Society Proceedings Volume 2003-08 pp. 946-953.	
	C2	Aaltonen, et al., "Atomic Layer Deposition of Ruthenium Thin Films from Ru(thd) ₃ and Oxygen," Chem. Vap. Deposition (2004), 10, No. 4 pp. 215-219.	
	C3	Aaltonen, et al., "Ruthenium Thin Films Grown by Atomic Layer Deposition," Chem. Vap. Deposition (2003), 9, No.1 pp.45-49.	
	C4	Aoyama, et al., "Ruthenium Films Prepared by Liquid Source Chemical Vapor Deposition Using Bis-(ethylcyclopentadienyl)ruthenium," Jpn. J. Appl. Phys. Vol. 38 (1999) pp. L1134-L1136.	
	C5	Dadgar, et al., "Growth of Ru doped semi-insulating InP by low pressure metalorganic chemical vapor deposition," Journal of Crystal Growth 195 (1998) pp. 69-73.	
	C6	Kwon, et al., "Atomic Layer Deposition of Ruthenium Thin Films for Copper Glue Layer," Journal of the Electrochemical Society, 151 (2) (2004) pp. G109-G112.	
	C7	Kwon, et al., "Plasma-Enhanced Atomic Layer Deposition of Ruthenium Thin Films," Electrochemical and Solid-State Letters, 7 (4) (2004) pp. C46-C48.	
	C8	Lashdaf, et al., "Deposition of palladium and ruthenium β-diketonates on alumina and silica supports in gas and liquid phase," Applied Catalysis A: General 241 (2003) pp. 51-63.	
	C9	Lim, et al., "Atomic layer deposition of transition metals," Nature Materials, Vol. 2 November (2003) pp. 749-754.	
	C10	Shibutami, et al., "A Novel Ruthenium Precursor for MOCVD without Seed Ruthenium Layer," TOSOH Research & Technology Review, Vol. 47 (2003) pp. 61-64.	

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Date Considered 09/20/2006

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U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)					Docket No. AMAT/5975.P1/CPI/ COPPER/BG		Serial No. 10/634,662	
LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT					Applicant Chang, et al.		Confirmation No.: Unknown	
(Use several sheets if necessary)					Filing Date		Group	
		Examiner	Unknown		August 4, 2003		Unknown	
U.S. Patent Documents								
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate	
KMS	A1	6,617,634	09/09/03	Marsh, et al.	257	300	02/12/02	
	A2	6,610,568	08/26/03	Marsh, et al.	438	250	08/23/01	
	A3	6,597,029	07/22/03	Kim, et al.	257	295	06/14/01	
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	A7	6,482,740	11/19/02	Soininen, et al.	438	686	05/15/01	
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	A9	6,423,619	07/23/02	Grant, et al.	438	589	11/30/01	
	A10	6,372,598	04/16/02	Kang, et al.	438	399	06/16/99	
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	A12	6,346,477	02/12/02	Kaloyeros, et al.	438	680	01/09/01	
	A13	6,203,613	03/20/01	Gates, et al.	117	104	10/19/99	
	A14	6,063,705	05/16/00	Vaartstra	438	681	08/27/98	
	A15	5,962,716	10/05/99	Uhlenbrock, et al.	556	16	08/27/98	
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OTHER ART								
*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.						
	C1							
	C2							
	C3							
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		Examiner	Unknown		August 4, 2003		Unknown	
U.S. Patent Documents								
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate	
KMS	A1	5,372,849	12/13/94	McCormick, et al.	427	253	01/18/94	
	A2	2003/0165615	09/04/03	Aaltonen, et al.	427	79	01/29/02	
	A3	2003/0096468	05/22/03	Soininen, et al.	438	200	11/19/02	
	A4	2002/0125516	09/12/02	Marsh, et al.	257	295	02/12/02	
	A5	2002/0121697	09/05/02	Marsh	257	751	04/30/02	
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	A11	2002/0028556	03/07/02	Marsh, et al.	438	299	06/25/01	
	A12	2002/0025627	02/28/02	Marsh, et al.	438	250	08/23/01	
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	A14	2002/0000587	01/03/02	Kim, et al.	257	295	06/14/01	
	A15	2001/0054730	12/27/01	Kim, et al.	257	301	05/23/01	
For Ign Patent Documents								
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OTHER ART								
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	C1							
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